ARMALITE AR-18 (AR-180) OPERATION & MAINTENANCE MANUAL

- * General Data
- * Accessories
- * Special Tools
- * Operation -- Usual & Unusual Conditions
- * Telescopic Sight
- * Repair
- * Cleaning
- * Preventative Maintenance
- * Trouble Shooting
- * Disassembly/Assembly
- * Replacement of Parts

Armalite, Inc. 118 East 16th Street Costa Mesa, California

OPERATING AND MAINTENANCE MANUAL

RIFLE, 5.56 - MM, AR - 18

Armalite, Inc. 118 East 16th Street Casta Mesa, California

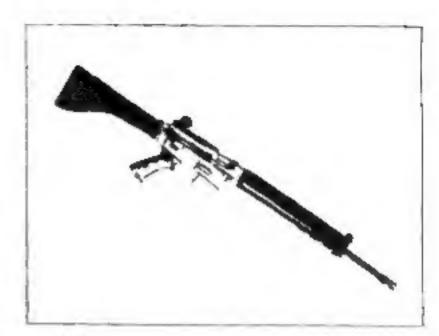
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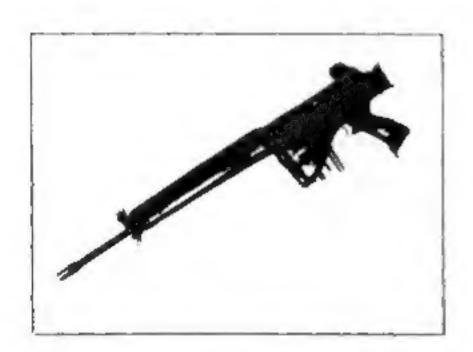
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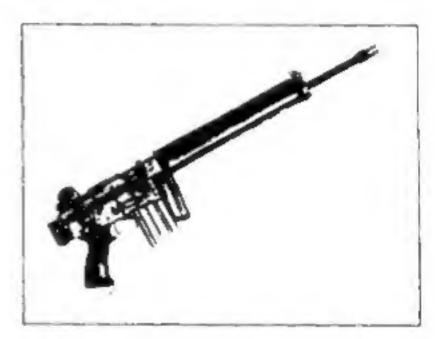
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R.IIe 5 56 m m — AR 18 Figure 1-1





Rifle 5.50 m.m. AR 18 Stock Folded Figure 1.2

CHAPTER I

INTRODUCTION

Section 1

1-1. GENERAL.

1-2. SCOPE. This manual is published for the information and guidance of personnel responsible for operation and organizational maintenance of the Rifle, 5.56 MM, AR-18. Information provided includes: tabulated data, accessories and special tools, preparation for use, operating instructions, preventive maintenance and lubrication procedures, inspection, trouble-shooting, repair parts, procedures on disassembly, cleaning, repair, assembly and ammunition.

Section 2

- 1-3. DESCRIPTION AND DATA.
- 1-4. DESCRIPTION. The AR-18 rifle, (Figure 1-1), is light-weight, air-cooled, gas-operated, magazine-fed, shoulder or hip fired, and designed for either full automatic or semi-automatic fire. The rifle utilizes a 20-round magazine.
- 1-5. The manufacturer's name, serial number and caliber is stamped on the left side of the upper receiver.
- 1-6. The barrel is air-cooled and is provided with a flash suppressor and recoil compensator, which serves as a grenade launcher and front support for the bayonet. The barrel is surrounded by a heat resisting fiberglass material, which serves as a hand guard and forearm. The hand guard has a heat resisting metal inner shield. The front sight is adjustable for elevation and the rear sight for windage.
- 1-7. The rifle has a folding buttstock. (Figure 1-2). The buttstock is made of a durable, synthetic material of high impact strength unaffected by exposure.
- 1-8. The rifle is readily opened by pressing the guide spring plate forward, providing ready access for removal of the bolt carrier assembly and upper hand guard. Also accessibility to all other working parts for convenient cleaning and inspection. If ever required, the manual charging handle provides a means of forcing the bolt forward to full lock position.
- 1-9. The bolt incorporates seven locking lugs. Upon closing, the bolt rotates to engage seven silmilar locking lugs in the barrel extension. Thus, the full force of the explosion of the cartridge is absorbed by the barrel extension and bolt. No pressure is exerted upon the receiver. The receiver is made of light-weight steel stampings. The design contributes to a high degree of safety, durability and performance of the rifle. Portability and logistical value is greatly increased due to resultant weight saving.

Section 3

1-10. TABULATED DATA.

1-11. Tabulated data pertaining to the general characteristics and performance are listed as follows:

Weight

AR-18 Rifle without magazine and aling	6	lb.
Sling M1	4	lb.
Empty Aluminum magazine	2	lb.
Loaded Aluminum magazine.	7	lb.
AR-18 Rifle with sling and loaded magazine		
Bipod M-3	6	lb.
Bipod Case	2	lb.
Bayonet-Knife M7		
Scabbard M8A1	8	ιь.

Length	
Rifle with flash suppressor-compensator	
Rifle with bayonet-knife	43.5 in.
Barrel	18 in.
Barrel with flash suppressor	19.8 in.
Mechanical Features	
Rifling, R.H. 6 grooves — 1 turn in 12" Bore Maximum	
Groove Maximum	
Trigger pull	8.5 lbs.
**************************************	5.0 lbs.
	Gas
	Rotating Bolt
	20 rds.
Ammunition	######################################
	Ball, Tracer & Grenade Launching (Blank)
Firing Characteristics	Tracer & Office Lauricinia (District)
	1300 ft-lb.
	52,000 psi
Challe Date of Fine	700/800 rds. per minute
	Too oo rue. per minute
Maximum Rate of Fire	
	150/200 rds. per minute
	12/15 rds. per minute
AL A VINOSINO MENTANTE	

Table 1-1. ACCESSORIES

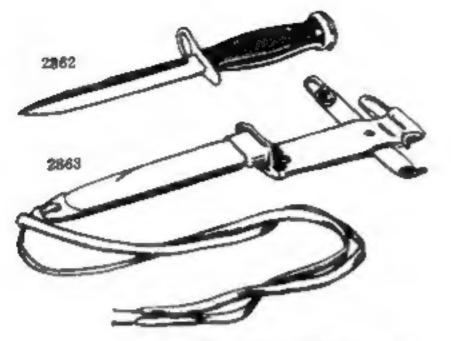
Item	Identifying Number	Figure Number
Bayonet-Knife AR-18	2862	1-3
Bipod, Rifle AR-18	2773.5	1-3
Case, Bipod	2864	1-8
Scabbard, Bayonet-Knife AR-18	2863	1-3

Table 1-2. SPECIAL TOOLS

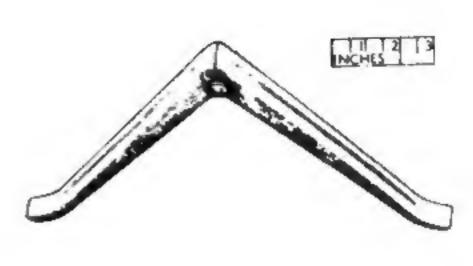
Item	Identifying Number	Figure Number
Rod, cleaning, small arms, AR-12	2866	1-9
Brush, cleaning, small arms	2867	1-8

Section 6

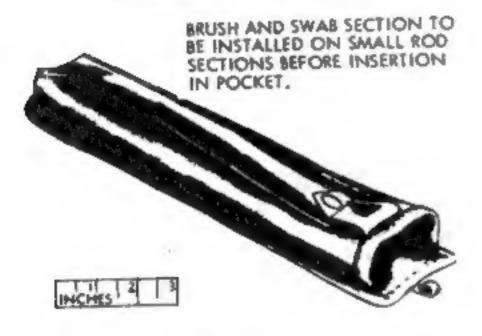
- 1-12. ACCESSORIES AND SPECIAL TOOLS.
- 1-13. ACCESSORIES.
- 1-14. Accessories are tabulated in Table 1-1 and listed in Apendix I, which is the authority for requisitioning replacements.
- 1-15. Special Tools.
- 1-16. Special Tools are tabulated in Table 1-2 and listed in Appendix I, which is the authority for requisitioning replacements.



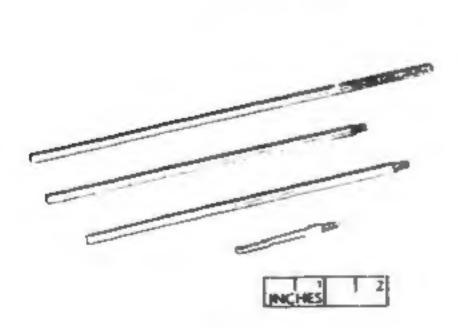
Bayonet-Knife AR-18 and Bayonet-Scabbard, Bayonet-Enife AR-18



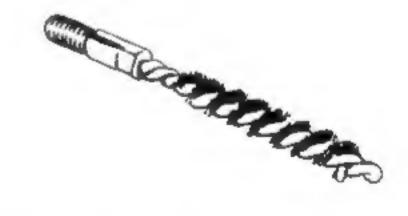
Rifle Bipod, AR-18 2773-5



Bipod Case - 2864



Small Arms Cleaning Rad - 2866



		 -
	1 1	2
INCHES	•	

Small Arms Cleaning Brush - 2867

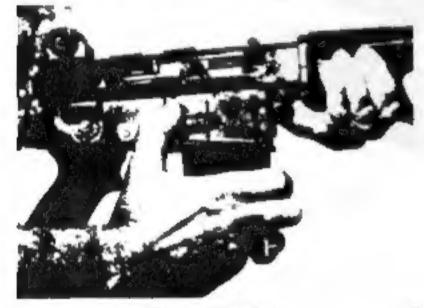
CHAPTER II OPERATING INSTRUCTIONS

Section I

- 2-1. SERVICE UPON RECEIPT OF MATERIAL.
- 2-2. GENERAL.
- 2-3. Upon receipt of the rifle, it will be inspected by the responsible individual to determine that it has not been damaged in-transit and is in proper condition for service.
- 2-4. All basic issue items, replacement parts, tools, and equipment checked as invoiced.
- 2-5. A record will be made of all missing parts, tools, and equipment and any other deficiencies in the shipment. Corrective action will be initiated by the responsible individual.
- 2-6. SERVICES.
- 2-7. The rifle will be unpacked, all foreign matter removed from the surfaces of the weapon, assuring all components are clean. If necessary, the bore will be wiped clean by pushing clean, dry patches through the barrel, from the chamber to the muzzle.
- 2-8. The rifle will be visually inspected for function to include proper seating of the magazine.
- 2-9. BIPOD.
- 2-10. Foreign matter will be removed from the bipod and case, as necessary.
- 2-11. The bipod will be attached to the rifle to assure that the bipod is undamaged, suitable for use.

Section 2

- 2-12. CONTROLS.
- 2-13. Refer to (Figure 2-1) for Controls and Operation of Controls.



Remove Magazine



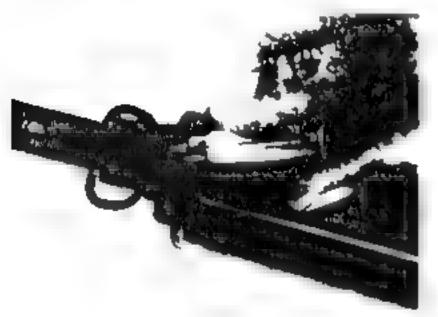
Figure 2 I

Clearing Rifle, Inspect Chamber

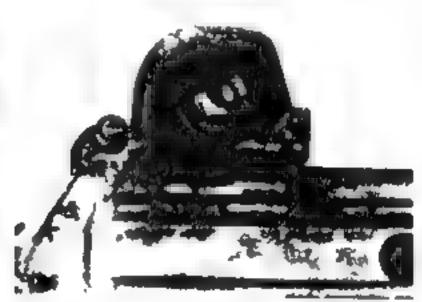


Place Selector Lever in Safe Position

- 2-14 OPERATION UNDER USUAL CONDITIONS
- 2-15. GENERAL.
- 2-16 PREPARATION FOR FIRING Clear the rifle by performing the following operations Remove magazine, inspect chamber and place selector lever on "safe" position (Fig. 2-1)
- 2-17 SERVICE BEFORE FIRING Refer to T les 3-2 and 3-3
- 2-18 CLEAN AND LUBRICATE THE BOLT CARRIER GROUP. The bolt carrier group may be removed as shown in (Figure 3-10.) Remove any oil or dirt from the external surfaces of the bolt and bolt carrier with a clean, dry rag or cleaning patches. Place a drop of oil in each of the two holes of the bolt carrier to lubricate the guide rods and a drop on the body of the bolt. I se oil sparingly, as excess oil may collect fore gi, matter. Wipe any excess oil from the surface of the bolt carrier. A light film of grease or oil may be applied to the guide rail for the bolt carrier on the left inside of the upper receiver.
- 2-19 LOADING Note: Repeat Operation in (Figure 2-1) (Safety Procedure)
- 2-20 LOADING THE MAGAZINE. The magazine has a capacity of 20 rounds and may be loaded with any amount up to that capacity. The magazine follower has a raised portion generally resembling the outline of a cartridge. Cartridges are loaded into the magazine so that the tips of the bullets point in the same direction as the raised portion of the follower.



Frent Sight Adjustment Figure 2-2

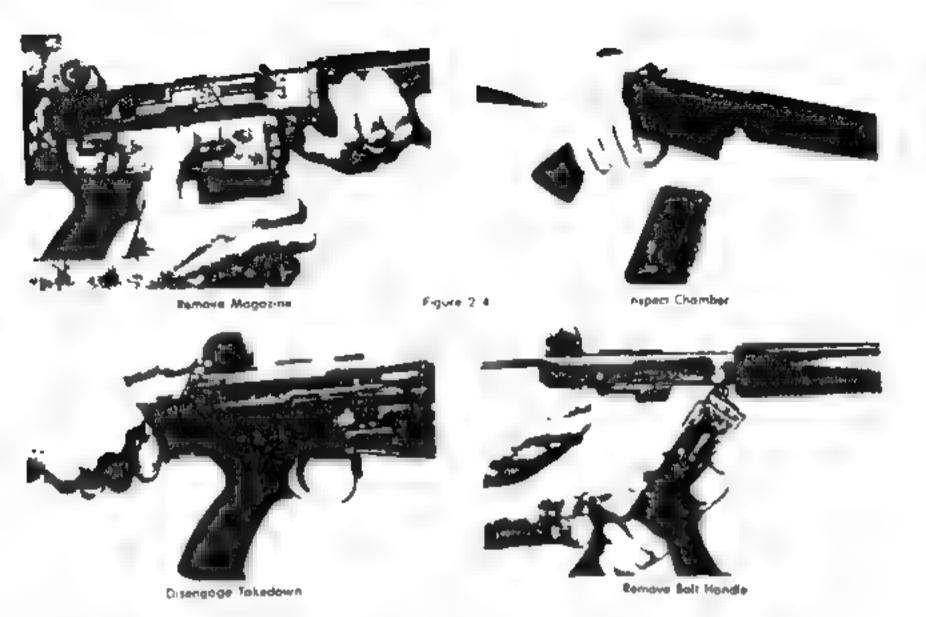


Rear Sight Adjustment Figure 2-3

2.21 LOADING THE RIFLE. The magazine may be inserted with the bolt and the bolt carrier open or closed. Hold the forearm of the rifle with the left hand, pointing the muzzle in a safe direction. With the right hand, insert a loaded magazine into the magazine housing. Push upwards until the magazine gauge engages and holds the magazine. Rap base of magazine sharpive with heel of hand to assure positive retention. Check by attempting to withdraw the magazine without use of the magazine release. If the action is open, grasp the charging handle with the right hand, pull to the rear, thus disengaging the bolt stop and release the charging handle. A round will be stripped from the magazine and loaded into the chamber. If the action is closed when the magazine is inserted, pull the charging handle fully to the rear with the right hand and release it NOTE. Do not "ride" the charging handle forward. If the charging handle is eased forward from the open position, the bolt may fail to rotate and filly lock. If the bolt fails to go all the way forward, push forward on the manual charging handle. The rifle is now loaded, ready to fire.

WARRING

Make sure the selector lever is on the "safe" position, if not ready to fire



2.22 FIRING

5.23 SELFCTOR LEVER The rifle may be fixed semi-automatically or fully automatically by moving the selector lever to the appropriate position, described in Figures 2-1 and 2-5

24 SEMI POSITION With the selector lever in this position, the rifle will fire one round

each time the trigger is pulled

2.25 AUTO POSITION With the selector lever in this position, the rifle will continue to fire until the magazine is empty or the trigger is released. When the rifle is fired on either SEMI of AUTO, the bolt will lock in open position when the last round from a magazine has been fired.

2.36 WITH STOCK FOLDED With the stock folded, the rifle may be fired and readily controlled from the hip position. The selector lever must be positioned from the right side of the file as the folded stock prevents access to the lever on the left side. See Figure 2-5.

1 fle as the folded stock prevents access to the lever on the left side See Figure 2-5
27 IMMEDIATE ACTION PROCEDURES FOR REMOVING A LIVE ROUND IN CASE

OF FAILURE TO FIRE

2 28 To apply immediate action, follow the sequence below

a Wait 10 seconds, then pull charging handle fully to the rear observe for ejection of cartridge or cartridge case

I If a cartridge is ejected, release charging hand e to feed a new round

2 If a cartridge or case is not ejected, a failure to extract or feed has occurred Check for round in chamber. If chamber is empty, change magazines, reload and attempt to fire the rifle.

h If a 1 above occurs it may indicate a defective round a broken firing pin, hammer spring or a bolt closure failure

c. If a 2 above occurs, it may indicate a broken extractor

2-29 MISFIRE, HANG FIRE AND COOK-OFF In the event of failure of the rifle to fire when the trigger has been pulled and the hammer has fallen, allow ten seconds to elapse in the event of a hang fire and then eject the round and attempt to fire. Cook off can only result from an excessively heated chamber, caused by full automatic fire requiring approximately 180-200.



Figure 2.4 Remove Balt Assembly: Guide Bods and Springs



Figure 2.5 Selector Level Operation with Stock folded

rounds fired in a very minimum period of time. A cook-off can result when the primer is exposed to extremely high temperature, but still will require approximately 30 seconds for the heat to ignite the primer in the event a cook-off occurs, immediately remove the magazine and eject the chambered cartridge. Under all above conditions, be particularly careful as to the direction the rifle is pointed

2.30 DOUBLE FEED Double feed may occur when initially loading the rifle, caused by failure to allow the first round to fully chamber and pulling the charging handle to the rear with the first cartridge still held by the extractor. The bolt carrier, going forward, will attempt to strip the second round from the magazine, resulting in a jammed condition. Remove the magazine and pull the charging handle to the rear, releasing the first cartridge

2-31 UNLOADING. Repeat operation in figure 2-1 and 2-16.

2-32 INSTALLING ACCESSORIES, figures 2-8 and 2-9.



ente 5.56 mm. Alt 18. Stock forded in Jump Position Figure 7.6A



Biffe 5 56 m.m. Alt 18, Stock Extended in Jump Position Figure 7 68

Section 4

2-33 OPERATION UNDER UNUSUAL CONDITIONS If it is desired to fire the rifle with the stock folded, the user should become fully familiar with the operation of the selector lever from the right side of the rifle. The forefinger of the right hand should be used to a low the continued proper hold on the pistol grip (a left handed shouter would use the thumb of the left hand).

2-34 The rifle may be attached to the user for jump purposes, with stock folded or fully extended. See figure 2-6

2.35 The rifle should be held when taunching grenades from a hip position, muzzle elevated, utilizing the sling. See figure 2-7

NOTE

The rafle should never be fired from the shoulder when launching a grenade



Figure 2.7



Remove Instal Bayanet Knife Figure 2 ft



Remove Instal Bipod Figure 2 P

- 2-36. TELESCOPIC SIGHT. Fig. No. 2-10. The telescopic sight is one of extremely durable design with outstanding optical capabilities. It has a true 2.75X magnification.
- 2-37. The quick detachable mount allows immediate removal or installation. Regardless of the number of times removed, it will return to a positive zero due to the dove tail design of the base and mount. A tunnel over the sight allows use of the iron sight in case of such an immediate requirement.
- 2-38 A range knob on top of the sight has 4 settings 1 for 1-200 yards, 1 each for 300, 400 and 500 yards. This rapid and positive elevation system contributes greatly to practical use in the field. The protective cap on the top of the range adjustment knob is removed by the use of the head of a cartridge. Sight elevation adjustments are made under this cap by rotating the elevation knob with the head of a cartridge in the direction of the arrow to move the point of impact up.
- 2-39. Dust covers are provided and they should be used at all times when the sight is not installed on the rifle or intended for immediate use to protect the lens.
- 2-40. INSTALLATION. The sight is installed by compressing the asfety lever on the front of the mount allowing it to clear the dove tail base on the rifle. The plunger at the rear of the mount is pressed firmly against the front base of the rear sight, compressing the spring allowing the scope mount to slide foreward on the base.
- 2-41 The night incorporates an inverted post as well as fine crosshairs. When "holding over" at extreme ranges, this precludes the post from blotting out the target. This comparatively heavy post allows positive point of aim in times of near darkness when the fine cross hairs tend to disappear against the background.
- 2-42. MAINTENANCE.
 - 1 Use lens cover at all times when the aight is not in use on the rifle
 - 2. Check periodically to assure all caps and screws are snug and in place
 - 3 Oil the spring plungers lightly.
 - 4 Oil the base occasionally to facilitate mounting and to prevent rusting

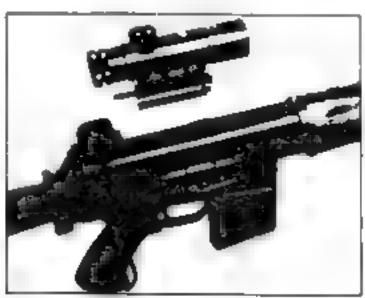


Figure 2 10

CHAPTLE III ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

territory is

- 3-1 REPAIR PARTS, TOOLS AND EQUIPMENT.
- 3-2 GENERAL.
- 3-3 This chapter lists repair parts, common tools and equipment and special tools and equipment
- 3-4 REPAIR PARTS (2nd Echelon)

PART NO.	DESCRIPTION	QUANTITY
2666-A	Extractor	29
2671-C	Firing Pin	3
2673-B	Take Down Pin, Bolt	3
2668-A	Spring, Extractor	29
2715-C	Spring, Firing Pin	3
2678-A	Spring, Operating Rod	2

3-5. ACCESSORIES AND SPECIAL TOOLS. Accessories and Special Tools are tabulated in Table 3-4.

-

- 3-6. LUBRICATION
- 3-7. GENERAL. The rifle should be cleaned and lubricated at the end of each day's use, or when exposed to an excessive amount of dirt, grit, or other foreign matter and, or water. The rifle should not generally be fired beyond 200 rounds without being cleaned, although, under normal conditions, the rifle can be expected to perform reliably up to approximately 1,000 rounds without cleaning. For best continued operation, all surfaces should be protected by a very light film of oil, except under sub-zero temperatures all oil should be removed from moving components. The rifle can function completely dry, although tack of lubricant is undesirable, due to resultant excessive wear. NOTE: Keep the gas piston clear of excess oil to prevent early formation of carbon.
- 3-8. CLEANING AND LUBRICATION AFTER FIRING.
- 3-9. CLEANING AND LUBRICATING THE BARREL.
- a. Attach the wire brush to the cleaning rod, dip in solvent cleaning compound and brush the bore thoroughly. Do not submerge barrel in cleaning solution. The gas piston should not be allowed to fill with oil. Brush the bore from chamber to muzzle, using straight-through strokes.

NOTE

Do not reverse direction of brush while in bore.

Push the brush through the bore until it extends beyond the muzzle. Continue until the bore is well covered with solvent. Remove the brush from the rod, and dry the bore by pushing through clean, dry patches. Continue until patches come out clean and dry.

- b. Clean the locking lugs in the barrel extension, just to the rear of the chamber. Brush the lugs with a small brush.
- c After cleaning, lubricate the bore with a lightly oiled patch to prevent corrosion and pitting. Lightly oil the lugs in the barrel extension.
- d. Remove the individual component parts of the operating rod. Wipe clean with oil-soaked patches. Use the cleaning rod with the brush to clean the gas piston. Remove any excess oil. See Figure 2-6.

- 3-10. CLEANING AND LUBRICATING THE BOLT CARRIER GROUP.
- a. Remove the bolt carrier group from the upper receiver. Field strip the bolt carrier group. Wash all external surfaces with a patch saturated in solvent cleaning compound.
- b. Using a small brush dipped in solvent cleaning compound, acrub all carbon deposits and dirt from the locking lugs of the bolt.

CAUTION

Brush the face of the bolt, paying particular attention to area under the face of extractor. Do not attempt to remove discoloration caused by heat.

When dry, lightly oil the surface of the bolt carrier and place one drop on the bolt body. See figure 3-20.

- 8-11. CLEANING AND LUBRICATING THE LOWER RECEIVER GROUP.
 - a. Wipe any particles of dirt from the trigger mechanism with a clean patch or brush.
 - b. Place a drop of oil on each of the pins and the stock hinge and release plungers.

Section 3

- 8-12. PREVENTIVE MAINTENANCE SERVICES.
- 3-18. GENERAL.
- 8-14. RESPONSIBILITY. It is the responsibility of the operator to assure his rifle is properly lubricated at all times and is in proper functioning order. If the rifle appears to not be functioning normally, it will be reported to the responsible organizational personnel. (Table 3-1). It will be the responsibility of organizational maintenance personnel to make minor repairs, as indicated in Table 8-8.
- 8-15. GENERAL.
- 3-16. GENERAL PROCEDURES. Organizational maintenance personnel will be responsible for the care and preventive maintenance of the rifle when in temporary storage and/or undergoing routine inspection. These personnel are responsible for assurance that the rifle is being properly maintained by the operator and only re-issued when in proper mechanical condition. Evidence of component failure or wear will be reported to higher authority, consistent with standard operating instructions.

Section 4

- 8-14. TROUBLESHOOTING.
- 3-15. SCOPE. The following information is to assist the operator and organizational maintenance personnel to restore inoperative or worn, or damaged equipment to a satisfactory operating condition. This includes both determination of the cause (trouble shooting) and corrective action. All repair maintenance indicated shall be performed only by qualified personnel utilizing standard service equipment. Table 3-1.

Maifunction	Probable Cause	Remedy
Bolt fauls to lock to the rear after last round.	1. Paulty magazine.	Replace magazine.
Failure to feed	Paulty magazine. Binding bolt earrier in locked position.	Replace magazine. Disassemble and clean (on a new weapon, one or two drops of oil on the guide rods may remedy this trouble). Check firing pin and spring and oil. Clean and lubricate bolt and carrier, higher schelon.
Failure to fire	Improper assembly of firing pin. Emproperly installed hammer or trigger spring. Obstructed chamber.	Reinstall firing pin and check bolt takedown pin for damage. Also check spring and replace if broken. Disassemble and install properly. Clean.
Fires with selector lever on SAFE.	Faulty selector lever. Faulty or misslined trigger pin.	Higher echelon. Replace trigger pin.
With selector lever on SEMI, fires when trigger is released.	Paulty or mealined trigger pin. Paulty hammer or trigger.	Notify higher echelon. Notify higher echelon.
Bolt seizes, will not rotate.	1. Carbon dirty or burred bolt	Hold rifle in vertical position and strike butt sharply on ground while pushing down on charging handle, Clean as moreoury.

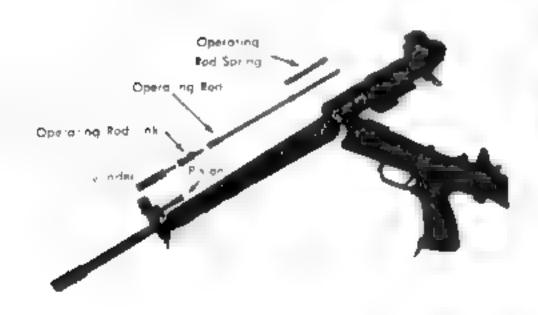
Section 5

3-16. MAINTENANCE OF RIFLE.

3-17. DISASSEMBLY/ASSEMBLY. This section contains instruction on disassembly, assembly and maintenance, before and after firing. For disassembly and assembly instructions, see figures 3-1 thru 3-19.



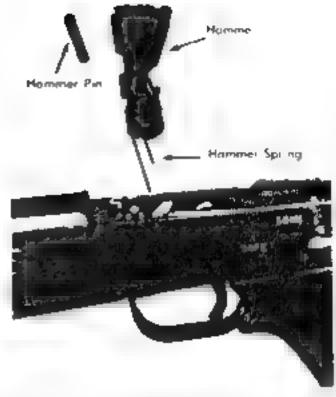
Piller 5.56 mm. AP. 8 Malor Groups Figure 1



Remove Histo Operating Rost Assemble Figure 3.2



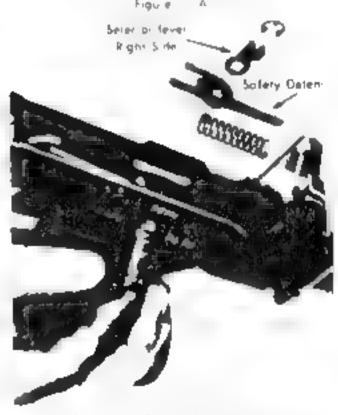
Remove Install Mommer Pin Figure 3.3



Committee 2h . . Remaile instal Humme



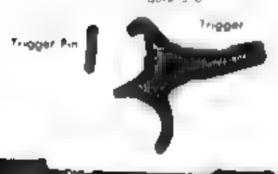
Disengage Remove wile or eve Figure:



Oisengage Remove Selector level Figure a 58



Remove Install Trigger Pin Figure 1 6





Pernave his not 1 age



Disengage Engage Takedown
Figure 3 B



W Indraw Insert Charging Handle Figure 3-9



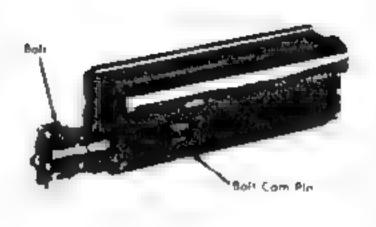
Remove Install Bolt Corrier Guide Rods and Guide Rod Springs Figure 3.10



Remove Insta Upper Hand Guard Figure 3.1



Remove install Firing Pin Betoining Pin Figure 3.12



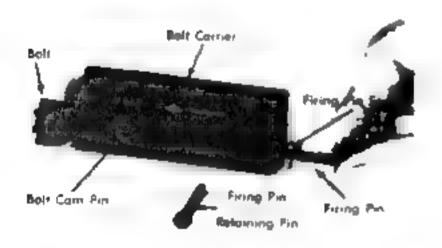
Remove Instalt Balt Cam Pin and Balt Figure 3 5



Remove instal Filing Pin Retaining Pin Figure 3 3



Remove instal Extractor Figure 3 66



Removez Install Firing Pin Figure 3 - 4



Boh Assembly Figure 3 66

- 3-18. CLEANING, INSPECTION AND REPAIR.
- 3.19. BEFORE FIRING. The rufle should be inspected as indicated in Section 3, Chapter II,

2-14

- 3-20. AFTER FIRING.
 - a. Cleaning after Firing: Table 3-2 and 3-3.
 - b. Inspection after Firing: Table 8-4.
- 3-21. REPLACEMENT OF PARTS.
- 3-22. All replacement parts are interchangeable and require no adjustments when being installed in this rifle. However, to insure proper function and full reliability, the following precautions should be taken:

a. Do not interchange bolts, bolt carriers and barrels. Keep the bolt carrier assembly

with its original barrel to assure retention of correct headspace.

b. If replacement of either part becomes necessary, carefully check the new part to see that it fits properly and operates smoothly.

3-23. FUNCTION CHECK.

NOTE

Remove Magazine

8-24. A complete function check of the rifle consists of checking the operation of the rifle while the selector lever is in the SAFE, SEMI, and AUTO positions. The following sequence is used for a rapid, complete check. Any portion of the check may be used alone to determine the operational condition of any specific fire selection. Start with the upper and lower receiver groups in the open position.

MOTE

Receiver is in open position

a. SAFE position. Cock hammer and pull trigger. Hammer should not fall.

b. SEMI position. Pull trigger. The hammer should fail. Hold trigger to rear, recock hammer and release trigger. Hammer should transfer from disconnect to the hammer and sear engagement.

NOTE

Receiver is in closed position

- c. AUTO position. Pull trigger, hammer should fall. Hold trigger to the rear and operate charging handle, recocking the hammer. Release charging handle. The hammer should fall. Release trigger and operate charging handle, cocking hammer. Release charging handle. Hammer should not fall. For further safety check, while cocked with safety on, rap butt on floor. If hammer falls, turn in for repair.
- d. SEMI position. Pull the charging handle to the rear. Inspect the chamber for safety

and release charging handle. Pull the trigger. Hammer should fall.



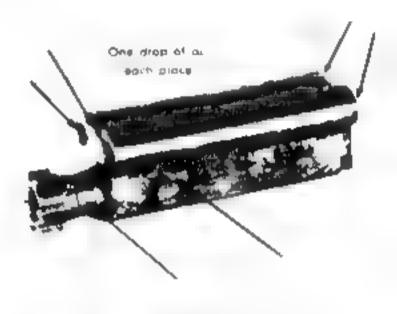
Bail Cerrier Group Ports Figure 3-17



Disossemble: Assemble Mogosine Figure 3, 19b



Disengage Engage Receiving Prior Pin Figure 3:18



Cleaning and subricating the Boil Car ler Group. Figure 3-20



Disossemble: Assemble Magazine Figure 3: 19e

Table 3-2.
PREVENTIVE MAINTENANCE SERVICES

Interval & Sequence No.					
Before	During	After	Operator		Daily Schedule
Firing	Firing	Firing	Item to be Inspected	Procedures	Paragraph References
1			Barrel Assembly	Wipe oil from bore and chapsher.	
2			Bolt As- sembly & Barrel	Retract bolt to assure from move- ment between bolt carrier and re- ceiver.	
2			Rifle	Hand function to senure proper operation.	
4			Lower Re- ceiver & Magazine	Check magazine for positive reten- tion and functioning of bolt catch.	
			Barrel, Barrel Ex- tension, Bolt Carrier Assembly	Cienn and lubricate. Particular at- tention to clean bolt carrier and holt accumbly	
			Assembly		

Table 3-8.
PREVENTIVE MAINTENANCE SERVICES

Sequence No.	Organisational Muintenance Personnel		Weekly Schedule
	liem to be Inspected	Procedures	Paragraph References
1	Rarrel & Bolt Assembly	Inspect for adequate and not exces- nve lubrication.	
2	Rifle	Hand function to assure proper operation.4	
3	Lower Receiver	Check magnissie for positive reten- tion & functioning of bolt catch.*	
4	Bolt Assembly	Inspect extractor for eracks, Check extractor apring for proper tension.*	
5	Barrel, Bolt Assembly, Guide Rods, Lower Re-	Inspect for cleanliness & Lubrica- tion.*	
	ceiver, Operat- ing Rod	*Prior to page.	

Table 8-4.

INSPECTION

Part, Components or Area	Instructions
Barrel and Barrel Extension	Inspect ourfaces for cracks or defects.
	Check harrel extension for burrs, broken or worn locking lugs. Inspect hore for damage.
Front Sight & Operating Rod.	Check front sight and operating red for cracks and general condition.
Upper & Lower Receiver Groups.	Inspect the receivers and all parts for tracks.
1	Inspect all parts for wear or damage.
	Check springs for condition, straightness and tension.
Bolt and Bolt Carrier	Check for cracks in holt.
	Inspect bolt for condition of locking lugs, pitted or chipped bolt face, and clongated firing pin hole.
	Inspect firing pin for wear and burrs.
	Inspect bolt carrier for cracks, burrs and chips.
	Check secket head cap screws for being staked.

APPENDIX I BASIC ISSUE ITEMS LIST

Section 1

1-1. PREFACE. This appendix list the basic issue items, tools, equipment and replacement parts for rifle, 5.56 mm, AR-18.

Settlet 2

1.2. BASIC ISSUE ITEMS. The group listings are a breakdown of equipment by a physical description supported by illustrations.
(Figures 1.2.8 exploded views).

1-3. MAJOR ITEMS.

AJOR LIEMS.

GROUP ASSEMBLY PARTS LIST

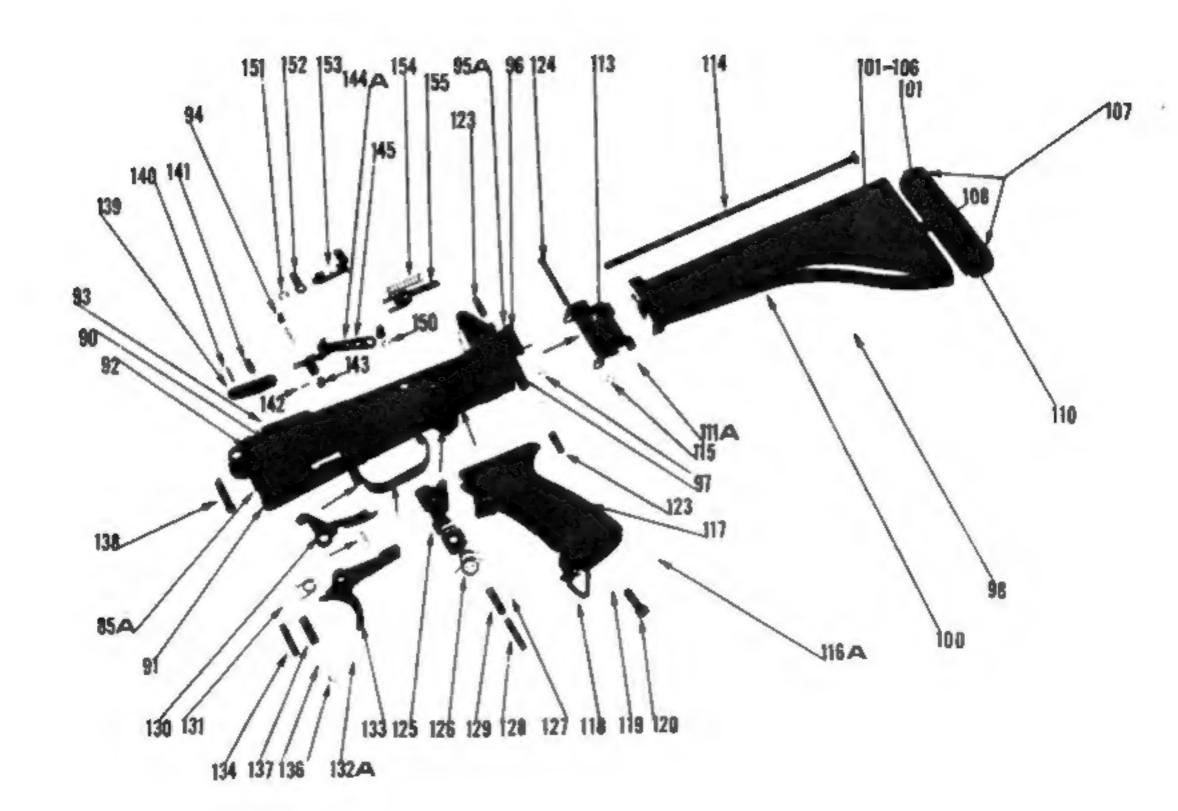
Figure & Index No.	Manufacturey Stock No.	Description	Unit of laws	Quantity Interperated	Organizational	15-Day Maint. Allow Per 100 Equipment
1A 2 8 4 5 6 7 8 9 10 11 12 13 A 15 A 17 18 19 21 22 24 A 25 27 28 29 30	2681 2680 2674 2889 2840 2841 2785 2679 2632 2626 2656 2634 2778 2857 2643 2763 2763 2636 2636 2637 2687	Anny, Weld & Rivet, Upper Receiver Receiver, Upper Housing, Rear Sight Extension, Barrel Guide Truck, Upper Receiver Rivet, Auto Sear Log, Front, Dust Cover Log, Raar, Dust Cover Log, Raar, Dust Cover Log, Raar, Dust Cover Plate, Scape Mount Anny, Barrel To Upper Receiver Upper Receiver Weld & Rivet Anny, Barrel Anny, Front Sight Front Sight Front Sight (Factory or Ordnance Installation Only) Swivel Sting, Front Sight Anny, Pisten Front Sight Piston, Front Sight Ring, Pisten Blade, Frent Sight Plunger, Front Sight Spring, Pinnger, Frent Sight Taper Pin, Front Sight Taper Pin, Front Sight Cover Weld Anny, Dust Cover Cover, Dust Cam Follower, Dust Cover Spring, Plunger, Dust Cover Plunger, Cam Follower, Dust Cover Roll Pin Spring, Hinge Pin, Dust Cover	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(1.0)	

^{*} Indicates part of an assy, not to be ordered separately.

GROUP ASSEMBLY PARTS LIST

Index No.	Manufacturer		Incue	torporate falt	lan	15-Day Maint. Allow Per 100 Equipment
Pigura & Ir	Stock No.	Description	Unit of	Quantity Ineurpor	Organizational	
30-1 31A 35 - 33 -**	2839 2717 2629 2663 2779	Hinge Pin, Dust Cover Atey, Upper Hand Guard Hand Guard Upper Liner, Upper Hand Guard Drive Screw		1 114		
25A 26 * 87 **	2716 2630 2664 2779	Assy, Lower Hand Guard Hand Guard, Lower Liner, Hand Guard, Upper Drive Screw	1	1 1 4		
*****	2641 2678 2639 2642 2846 2775 3644	Operating Rod Spring, Operating Red Link, Operating Red Cylinder, Operating Red Nut, Recoil Compensator Recoil, Compensator Cap, Hand Guard	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1.0)	
44444	2708 2784 2667 2664 2665 2666 2675	Assy, Auto Sear Rivet Assy, Auto Sear Sear, Automatic Extension, Auto Sear Pivot Pin. Sear Extension Bushing, Auto Sear Spring, Auto Sear	1 1 1 2 3	71111		
63 54 55 56 57 59 59	2659 2645 2676 2642 2641 2643 2791 2858-1	Pivot Pin, Auto Sear Drum, Windage, Rear Sight Spring, Rear Sight Spring, Plat, Rear Sight Aperature, Rear Sight Screw, Windage Rear Sight Protector, Rear Sight Screw Snap Ring, Rear Sight	1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111		
.	-	BOLT GROUP	1			
(IIA (2 '	2705 2646 2684	Assy, Bolt Carrier Carrier, Bolt Pin, Press Fit, Belt Carrier	,	1 1		
64 65 66 67	2671 2715 2678 2590	Piring, Pin Spring, Firing Pin Take Down Pin, Belt Pin, Com	1 1 1 1	1 1 1	(1.0) (1.0) (1.0)	
85A 69 • 70 •	2836 2594 2835	Amy, Charging Handle Handle, Charging Key, Charging Handle	1	1		
71 72 78 74 75 76	2667 2668 2666 2780-3 2669 2670 2665	Pin, Ext. actor Spring, Extractor Extractor Roll Pin, Ejector Ejector Apring, Ejector	1 1 1 1 1 1	1 1 1 1 1 1 1 1	(1.0) (1.0)	

fex No.	Manufacturer		lasue	Incorporated a Unit	iei	15-Day Maint. Allow Per 100 Equipment
Figure & Index	Stock No.	Description	*	Quantity Inco	Organisational	
78A 79	2662 2660	Assy, Stake, Guide Rod Forging, Plate, Guide Rods	1	,		
80 .	2661	Guide Rod		2		
81	2764	Plunger, Guide Rod Plate	1	1		1
62	2765	Spring, Plunger, Guide Rod Plate	1	1 1		J. D. A.
83	2780-1 2606	Roll Pin, Plunger, Guide Rod Plate Spring, Action	1 2	1 2		
"	2804	LOWER RECEIVER GROUP	-	1		
85A	2628 2687	Azsy, Wold & Rivet, Lower Receiver Rivet, Trigger Guard		2		
86 87A*	2658	Weld Assy, Trigger Guard	1			
88 .	2645	Trigger Guard	1	1		
89 *	2628	Nut, Pistol Grip		1		
90	2772-1	Post, Snap, Fastener		1		
91 *	2027	Receiver, Lower		1		
92 *	2782	Bracket, Lower Receiver Bracket, Magazine Latch		1 1		
98	2658 2604	Bushing, Belt Catch		1		
95A*	2753	Weld Assy, Bulkhend	ı	1		
96 *	2744 RC #133-15	Bulkhead, Receiver		1		
97 .	2746	Plate, Bulkhead		1		
98A	2708	Assy, Buttstock	1	1	l	
99 A.º	2859	Assy, Fastener, Buttstock		1		1
100 0	2614	Buttstock		1	1	
101	2772-2 RC 5183-48	Cover, Snap Festener Spacer, Snap Festener	ł	8	1	1
102	2772-5 2772-4	Spring, Snap Pastener	l	2	ı	i .
104 *	2772-3	Plate, Snap Fastener	1	ī		1
105	2772-6	Rivet, Snap Pastener	ł	4	1	1
106 *	2852-1	Washer, Plain, Snap Pastener	1	1 4	1	
107A	2860	Assy, Butteap	ı		1	
106	2618	Buttenp Recoil Pad		1	1	1
110	2621 2774	Screw, Recoil Pad			1)
IIIA	2752	Weld Assy, Hinge, Buttstock	1	1 "	ł	
112 .	2760	Hinge, Buttstock		1	1	
113 .	2754	Nut, Buttstock Hinge	Ι.	1	1	1
114	2620	Screw, Buttstock	1	1	1	1
115	2854-1	Snap Ring, Hinge Pin, Stock	1			[
116A	2861 RC 5133-15	Asny, Pistel Grip Pistel Grip	1		1]
117	2617	Sling, Swivel, Pistol Grip	1	1		1
118 -	2696		1		1	
129	2723	Washer, Plain, Pistol Grip Rolt, Pistol Grip	1 :	1	1	
120	2622 2780-3 094-0562	Roll Pin, Plunger, Bulkhand		2	1	I
121	2780-3 2672	Spring, Plunger, Bulkhead	1 1			I
123	2761	Plunger, Bulkhead	1 2			
124	2586	Hinge Pin	1		1	1
125	2609	Hammer	1	1	1	1
126	2653	Spring, Hammer	1	1		



GROUP ASSEMBLY PARTS LIST

ex No.	Manufacturer		Jeoue	Incorporated n Unit		15-Day Maint. Allow Per 100 Equipment
Figure & Index	Stock No.	Heacription	Unit of Ja	Quantity Incorp	Organizational	
27 28 29 30 31 32 33 34 35 36 37 38 41 42 43 44 44 45 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48		Snap Ring, Hammer, Trigger Pin, Hammer, Trigger Bushing, Hammer Disconnect, Trigger Spring, Disconnect Assy, Riveted, Trigger Trigger Assy Pin, Trigger Spacer, Trigger Bushing, Trigger Bushing, Trigger Takedown Pin, U & L. Receivers Latch, Magasine Roll Pin, Magasine Latch Spring, Magasine Latch Roll Pin, Bolt Catch Retainer, Spring, Bolt Catch Weld Assy, Bolt Catch Bolt Catch Housing, Plunger, Bolt Catch Spring, Plunger, Bolt Catch Plunger, Bolt Catch Plunger, Bolt Catch Snap Ring, Safety Lever Lever, Safety Casting, Safety Detent Detent, Safety Detent, Safety	221111111111111111111111111111111111111	0001111		6
166 168 159 160 161 162 168 164 165	2688 2862 2863 2773-5 2864 2865 2866 2867 2868	Magazine Assy, 20-round Bayonet-Knife, AR-18 Scabbard, Bayonet-Knife, AR-18 Bipod, AR-18 Case, Bipod, AR-18 Scope, 2.75 x 20mm with mount, AR-18 Cleaning Rod, AR-18 Bore Brush, Caliber, 22 Sling, AR-18			(2.0)	